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FILE 'HOME' ENTERED AT 11:21:53 ON 04 AUG 2006

=> file uspatfull

COST IN U.S. DOLLARS

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ENTRY	SESSION
0.42	0.42

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 11:22:53 ON 04 AUG 2006

CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 3 Aug 2006 (20060803/PD)
FILE LAST UPDATED: 3 Aug 2006 (20060803/ED)
HIGHEST GRANTED PATENT NUMBER: US7086090
HIGHEST APPLICATION PUBLICATION NUMBER: US2006174388
CA INDEXING IS CURRENT THROUGH 1 Aug 2006 (20060801/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 3 Aug 2006 (20060803/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2006

=> a (tacrolimus or fk506)

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=> s (tacrolimus or fk506)

3084 TACROLIMUS

4025 FK506

L1 6118 (TACROLIMUS OR FK506)

=> s l1 and implant and prosthe?

69605 IMPLANT

36182 PROSTHE?

L2 791 L1 AND IMPLANT AND PROSTHE?

=> s l2 and biodegradable

44617 BIODEGRADABLE

L3 327 L2 AND BIODEGRADABLE

=> s l3 and stent

15286 STENT

L4 195 L3 AND STENT

=> s l4 and coat?

936188 COAT?

L5 195 L4 AND COAT?

=> s l5 and matrix

418090 MATRIX

L6 185 L5 AND MATRIX

=> s l6 and rapamycin

6092 RAPAMYCIN

L7 160 L6 AND RAPAMYCIN

=> s l7 and mTOR

604 MTOR

L8 44 L7 AND MTOR

=> s l8 and receptor(w)bind?

132496 RECEPTOR

505529 BIND?

26921 RECEPTOR(W) BIND?

L9 0 L8 AND RECEPTOR(W) BIND?

=> s l8 and receptor?

150346 RECEPTOR?

L10 44 L8 AND RECEPTOR?

=> s l10 and class/subclass

'SUBCLASS' IS NOT A VALID FIELD CODE

0 CLASS/SUBCLASS

L11 0 L10 AND CLASS/SUBCLASS

=> d 110 1-20 ibib abs

L10 ANSWER 1 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2006:174045 USPATFULL
TITLE: Biodegradable coating compositions
including multiple layers
INVENTOR(S): DeWitt, David M., Minneapolis, MN, UNITED STATES
Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006147491	A1	20060706
APPLICATION INFO.:	US 2005-316787	A1	20051222 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-641557P	20050105 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US	
NUMBER OF CLAIMS:	46	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Page(s)	
LINE COUNT:	4075	

AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of multiple coated layers of biodegradable material. The invention further provides methods of treatment utilizing the devices.

L10 ANSWER 2 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2006:152784 USPATFULL
TITLE: Device for the delivery of a cardioprotective agent to ischemic reperfused myocardium
INVENTOR(S): Kopia, Gregory A., Hillsborough, NJ, UNITED STATES
Llanos, Gerard, Stewartsville, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006129225	A1	20060615
APPLICATION INFO.:	US 2004-13081	A1	20041215 (11)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	51 Drawing Page(s)		
LINE COUNT:	5850		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic

drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices. Implantable medical devices may be coated or otherwise have affixed thereto agents for healing ischemic tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2006:28966 USPATFULL
 TITLE: Method and device for surgical ventricular repair
 INVENTOR(S): Suresh, Mitta, Richardson, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006025800	A1	20060202
APPLICATION INFO.:	US 2005-158293	A1	20050621 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2004-790669, filed on 1 Mar 2004, PENDING Continuation-in-part of Ser. No. US 2002-235295, filed on 5 Sep 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-317197P	20010905 (60)
	US 2001-327221P	20011005 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C., P.O. BOX 398, AUSTIN, TX, 78767-0398, US	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	28 Drawing Page(s)	
LINE COUNT:	2355	

AB Embodiments disclose a method for repairing a heart of a human. A method may include introducing a collapsed reinforcing element through the skin into the vascular system of the human. The method may include delivering the reinforcing element into a left ventricle through the arteries. Once inside the left ventricle, the reinforcing element may be expanded to an expanded shape. In certain embodiments, a reinforcing element may be used to structurally reinforce a portion of an endocardial surface of a heart. The reinforcing element may include a preshaped patch and/or a plurality of preshaped flexible conduits. The method may include deploying the reinforcing element soon after a myocardial infarction to inhibit naturally occurring remodeling of the heart. The reinforcing element may be deployed with or without the use of a shaper. In some embodiments, a reinforcement element may be positioned on/coupled to an external surface of a human heart. In some embodiments, a reinforcing element may include an externally positioned apparatus configured to substantially reshape a portion of an interior chamber of a heart.

L10 ANSWER 4 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2006:3521 USPATFULL
TITLE: Anti-proliferative and anti-inflammatory agent
combination for treatment of vascular disorders with an
implantable medical device
INVENTOR(S): Dugan, Stephen, San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006002977	A1	20060105
APPLICATION INFO.:	US 2005-90507	A1	20050324 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2004-882506, filed on 30 Jun 2004, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	SQUIRE, SANDERS & DEMPSEY LLP, 1 MARITIME PLAZA, SUITE 300, SAN FRANCISCO, CA, 94111, US		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	1264		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Drug-delivery systems such as drug-delivery stents having an
anti-proliferative agent such as everolimus and an anti-inflammatory agent
such as clobetasol are provided. Also disclosed are methods of treating
a vascular impairment such as restenosis or vulnerable plaque

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:319270 USPATFULL
TITLE: Biodegradable vascular device with buffering
agent
INVENTOR(S): Dave, Vipul Bhupendra, Hillsborough, NJ, UNITED STATES
Landau, George, Verona, NJ, UNITED STATES
Patel, Premal, Plainsboro, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005278015	A1	20051215
APPLICATION INFO.:	US 2004-856459	A1	20040528 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Page(s)		
LINE COUNT:	961		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A vascular or cardiovascular medical device for placement at a site in a
patient's body and for controlling pH levels at the site in the
patient's body includes one or more structural components made of a
biodegradable and/or bioabsorbable material, or alternatively, a
coating thereon made of a biodegradable and/or
bioabsorbable material. A buffering agent is provided on or in the
biodegradable and/or bioabsorbable material and the buffering
agent is dispersed from the biodegradable and/or bioabsorbable
material in response to hydrolysis of the biodegradable and/or
bioabsorbable material. Additionally, the vascular or cardiovascular
medical device can include a drug that is included with the
biodegradable and/or bioabsorbable material. The vascular or
cardiovascular medical device can also be a stent or a valve.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:318102 USPATFULL
TITLE: Biodegradable drug-polymer delivery system
INVENTOR(S): Davis, Mark E., Pasadena, CA, UNITED STATES
Wright, Kenneth W., Rolling Hills Estate, CA, UNITED STATES
Mack, Brendan, Pasadena, CA, UNITED STATES
PATENT ASSIGNEE(S): California Institute of Technology, Pasadena, CA,
UNITED STATES, 91125 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005276841	A1	20051215
APPLICATION INFO.:	US 2005-148011	A1	20050607 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-577906P	20040607 (60)
	US 2004-631448P	20041129 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US	
NUMBER OF CLAIMS:	108	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Page(s)	
LINE COUNT:	2856	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A sustained-release biodegradable polymeric drug-eluting fiber is disclosed. In some embodiments, the therapeutic drug is complexed with cyclodextrin. In certain embodiments, the polymeric component of the fiber comprises cyclodextrin. The fiber may be fabricated to provide a thread and/or suture. The fiber may be used for treatment of ocular diseases or disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:313187 USPATFULL
TITLE: Injectable formulations of taxanes for cad treatment
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005272806	A1	20051208
APPLICATION INFO.:	US 2004-858954	A1	20040602 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	52 Drawing Page(s)		
LINE COUNT:	6727		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be

mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices. Liquid formulations, including solutions and suspensions of the various drugs, agents and/or compounds, may be locally or regionally delivered. In each of these instances, antioxidants are utilized to prolong product integrity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:306919 USPATFULL

TITLE: Biodegradable medical implant with encapsulated buffering agent

INVENTOR(S): Dave, Vipul Bhupendra, Hillsborough, NJ, UNITED STATES
Landau, George, Verona, NJ, UNITED STATES
Patel, Premal, Plainsboro, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005267565	A1	20051201
APPLICATION INFO.:	US 2004-856462	A1	20040528 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	48		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Page(s)		
LINE COUNT:	1025		

AB A medical device for placement at a site in a patient's body and for controlling pH levels at the site in the patient's body includes one or more structural components made of a first biodegradable and/or bioabsorbable material or, alternatively, one or more structural components having a coating thereon made of a first biodegradable and/or bioabsorbable material. The device also includes a buffering agent and at least one second biodegradable and/or bioabsorbable material on or in the one or more structural components, or alternatively, on or in the coating on the one or more structural components. The at least one second biodegradable and/or bioabsorbable material encapsulates the buffering agent and the buffering agent is dispersed from the at least one second biodegradable and/or bioabsorbable material in response to hydrolysis of the first biodegradable and/or bioabsorbable material. Additionally, the device can include a drug that is either also encapsulated by the at least one second biodegradable and/or bioabsorbable material or is included with

the first biodegradable and/or bioabsorbable material.

L10 ANSWER 9 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:286512 USPATFULL
TITLE: Coated aneurysmal repair device
INVENTOR(S): Chen, Chao C., Edison, NJ, UNITED STATES
Falotico, Robert, Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005249776	A1	20051110
APPLICATION INFO.:	US 2005-149466	A1	20050609 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-742346, filed on 19 Dec 2003, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	52 Drawing Page(s)		
LINE COUNT:	6173		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:286511 USPATFULL
TITLE: Intraluminal medical devices in combination with therapeutic agents
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Narayanan, Pallassana, Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005249775	A1	20051110
APPLICATION INFO.:	US 2005-131720	A1	20050518 (11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-742346, filed on 19 Dec 2003, PENDING

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US

NUMBER OF CLAIMS: 26

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 52 Drawing Page(s)

LINE COUNT: 6148

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:280510 USPATFULL

TITLE: Composition and method for preparing biocompatible surfaces

INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
 Chappa, Ralph A., Prior Lake, MN, UNITED STATES
 Chinn, Joseph A., Shakopee, MN, UNITED STATES
 Anderson, Aron B., Minnetonka, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005244453	A1	20051103
APPLICATION INFO.:	US 2005-90655	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-556634P	20040326 (60)
	US 2004-568021P	20040503 (60)
	US 2004-640602P	20041231 (60)
	US 2004-567915P	20040503 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Kagan Binder PLLC, 221 Main St N Ste 200, Maple Island Building, Stillwater, MN, 55082, US

NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 3205

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity. In some aspects, the biocompatible coatings of the invention are able to release a bioactive agent. The coatings can be formed using biostable or biodegradable polymeric material and photoreactive groups. The invention also provides methods for improving the quality of bioactive agent-containing coatings by performing pre-irradiation of biocompatible coating compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:267654 USPATFULL
TITLE: Process and systems for biocompatible surfaces
INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
Chappa, Ralph A., Prior Lake, MN, UNITED STATES
Chinn, Joseph A., Shakopee, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005232970	A1	20051020
APPLICATION INFO.:	US 2005-90517	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-556634P	20040326 (60)
	US 2004-568021P	20040503 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Kagan Binder PLLC, Maple Island Building, 221 Main St N Ste 200, Stillwater, MN, 55082, US	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	2063	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity that are able to release a bioactive agent, wherein the coatings are formed using biostable or biodegradable polymeric material and photoreactive groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 13 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:267649 USPATFULL
TITLE: Local administration of a combination of rapamycin and 17 beta-estradiol for the treatment of vulnerable plaque
INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005232965	A1	20051020
APPLICATION INFO.:	US 2004-826058	A1	20040415 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		

LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON &
JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US

NUMBER OF CLAIMS: 5

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 51 Drawing Page(s)

LINE COUNT: 6130

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:267648 USPATFULL

TITLE: Use of antioxidants to prevent oxidation and reduce drug degradation in drug eluting medical devices

INVENTOR(S): Fennimore, Roy R. JR., Titusville, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005232964	A1	20051020
APPLICATION INFO.:	US 2004-823834	A1	20040414 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		

LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON &
JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US

NUMBER OF CLAIMS: 35

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 52 Drawing Page(s)

LINE COUNT: 6544

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic

drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. The drugs, agents, and/or compounds may also be utilized to treat specific diseases, including vulnerable plaque. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices. In each of these instances, antioxidants are utilized to prolong product integrity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:255693 USPATFULL

TITLE: Solution formulations of sirolimus and its analogs for CAD treatment

INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005222191	A1	20051006
APPLICATION INFO.:	US 2004-813965	A1	20040331 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	51 Drawing Page(s)		
LINE COUNT:	5953		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Therapeutic agents may also be delivered to the region of a disease site. In regional delivery, liquid formulations may be desirable to increase the efficacy and deliverability of the particular drug. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the

implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:254342 USPATFULL

TITLE: Drug delivery device

INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Scheuble, Theresa, Rockaway, NJ, UNITED STATES
Kopia, Gregory Alan, Hillsborough, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005220836	A1	20051006
APPLICATION INFO.:	US 2004-813976	A1	20040331 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	51 Drawing Page(s)		
LINE COUNT:	5727		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Therapeutic agents may also be delivered to the region of a disease site. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:241683 USPATFULL

TITLE: Local vascular delivery of Panzem in combination with rapamycin to prevent restenosis following vascular injury

INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Parry, Tom Jay, Hellertown, PA, UNITED STATES
Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005209688	A1	20050922
APPLICATION INFO.:	US 2004-805736	A1	20040322 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		

LEGAL REPRESENTATIVE: PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON &
JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US

NUMBER OF CLAIMS: 14

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 48 Drawing Page(s)

LINE COUNT: 5347

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:240092 USPATFULL

TITLE: Local vascular delivery of etoposide in combination
with rapamycin to prevent restenosis
following vascular injury

INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Parry, Tom Jay, Hellertown, PA, UNITED STATES
Zhao, Jonathan Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005208092	A1	20050922
APPLICATION INFO.:	US 2004-805722	A1	20040322 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	42 Drawing Page(s)		
LINE COUNT:	5198		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be

modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:233125 USPATFULL

TITLE: Local vascular delivery of topotecan in combination with rapamycin to prevent restenosis following vascular injury

INVENTOR(S): Falotico, Robert, Belle Mead, NJ, UNITED STATES
Parry, Tom Jay, Hellertown, PA, UNITED STATES
Zhao, Jonathon Z., Belle Mead, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005202059	A1	20050915
APPLICATION INFO.:	US 2004-796397	A1	20040309 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	41 Drawing Page(s)		
LINE COUNT:	5096		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be modified to promote endothelialization. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 44 USPATFULL on STN

ACCESSION NUMBER: 2005:215931 USPATFULL

TITLE: Radioprotective compound coating for medical devices

INVENTOR(S): O'Hara, Michael D., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005187608	A1	20050825
APPLICATION INFO.:	US 2004-785519	A1	20040224 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	33 Drawing Page(s)		
LINE COUNT:	4794		

AB Medical devices, and in particular implantable medical devices, may be coated to minimize or substantially eliminate a biological organism's reaction to the introduction of the medical device to the organism. The medical devices may be coated with any number of biocompatible materials. Therapeutic drugs, agents or compounds may be mixed with the biocompatible materials and affixed to at least a portion of the medical device. These therapeutic drugs, agents or compounds may also further reduce a biological organism's reaction to the introduction of the medical device to the organism. In addition, these therapeutic drugs, agents and/or compounds may be utilized to promote healing, including the formation of blood clots. Also, the devices may be modified to promote endothelialization. Other compounds may include those that prevent damage from ionizing radiation. Various materials and coating methodologies may be utilized to maintain the drugs, agents or compounds on the medical device until delivered and positioned. In addition, the devices utilized to deliver the implantable medical devices may be modified to reduce the potential for damaging the implantable medical device during deployment. Medical devices include stents, grafts, anastomotic devices, perivascular wraps, sutures and staples. In addition, various polymer combinations may be utilized to control the elution rates of the therapeutic drugs, agents and/or compounds from the implantable medical devices.

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UNMATCHED RIGHT PARENTHESIS 'TUMISTATIN)'
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=> s (rapamycin? or (CCI 779) or (RAD 001) or (SDZ Rad) or everolimus or FK506 or Tacrolimus or (ASM 981) or Pimecrolimus or wortmannin or Tumistatin)
L1 108145 (RAPAMYCIN? OR (CCI 779) OR (RAD 001) OR (SDZ RAD) OR EVEROLIMUS
OR FK506 OR TACROLIMUS OR (ASM 981) OR PIMECROLIMUS OR WORTMANN
IN OR TUMISTATIN)

=> s l1 and link?
L2 12395 L1 AND LINK?

=> s l2 and backbone
L3 3038 L2 AND BACKBONE

=> s l3 and ((polyamino? or polylysine or PEG or (polyethylene glycol) or polyaspartate)
UNMATCHED LEFT PARENTHESIS 'AND ((POLYAMINO'
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s l3 and (polyamino? or polylysine or PEG or (polyethylene glycol) or polyaspartate)
L4 2021 L3 AND (POLYAMINO? OR POLYLYSINE OR PEG OR (POLYETHYLENE GLYCOL
) OR POLYASPARTATE)

=> s l4 and (implant? or prosthe?)
L5 1539 L4 AND (IMPLANT? OR PROSTHE?)

=> s l5 and biodegrad?
L6 712 L5 AND BIODEGRAD?

=> s l6 and coat?
L7 701 L6 AND COAT?

=> s l7 and matrix
L8 666 L7 AND MATRIX

=> s l8 and mTor
L9 43 L8 AND MTOR

=> s l9 and receptor?
L10 42 L9 AND RECEPTOR?

=> s l10 and ((ester linkage) or (heterobifunctional linker) or (amide ester linkage) or (disulfide linkage))
L11 0 L10 AND ((ESTER LINKAGE) OR (HETEROBIFUNCTIONAL LINKER) OR (AMID
E ESTER LINKAGE) OR (DISULFIDE LINKAGE))

=> s l10 and ((ester link?) or (heterobifunctional link?) or (amide ester link?) or (disulfide link?))
L12 7 L10 AND ((ESTER LINK?) OR (HETEROBIFUNCTIONAL LINK?) OR (AMIDE
ESTER LINK?) OR (DISULFIDE LINK?))

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L12 ANSWER 1 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:233416 USPATFULL
TITLE: Biodegradable coating compositions
comprising blends
INVENTOR(S): DeWitt, David M., Minneapolis, MN, UNITED STATES
Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES
Malinoff, Harrison, Golden Valley, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006198868	A1	20060907
APPLICATION INFO.:	US 2005-317212	A1	20051222 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-641533P	20050105 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Page(s)	
LINE COUNT:	3470	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of a blend of bioactive agent and at least two biodegradable polymers or copolymers. The invention further provides methods of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:174045 USPATFULL
TITLE: Biodegradable coating compositions
including multiple layers
INVENTOR(S): DeWitt, David M., Minneapolis, MN, UNITED STATES
Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006147491	A1	20060706
APPLICATION INFO.:	US 2005-316787	A1	20051222 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-641557P	20050105 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US	
NUMBER OF CLAIMS:	46	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Page(s)	
LINE COUNT:	4075	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at least a portion of the device is provided with a biodegradable coating composed of multiple coated layers of

biodegradable material. The invention further provides methods of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:104550 USPATFULL
TITLE: Method and apparatus for coating of substrates
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006088653	A1	20060427
APPLICATION INFO.:	US 2004-976193	A1	20041027 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER, 80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US		
NUMBER OF CLAIMS:	77		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Page(s)		
LINE COUNT:	2385		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 4 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:67060 USPATFULL
TITLE: Methods, devices, and coatings for controlled active agent release
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006057277	A1	20060316
APPLICATION INFO.:	US 2005-223811	A1	20050909 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-608638P	20040910 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER, 80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1438	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods, devices, and coatings, wherein active agent release is determined by deposition rate of a

coating or material. In an embodiment, the invention includes a method for coating a medical device, including identifying active agent elution rates for a coating composition applied to substrates at a plurality of coating deposition rates, selecting one of the coating deposition rates, and applying the coating composition to the medical device at the selected deposition rate. In an embodiment, the invention includes a combination including a medical device and a composition for coating the surface of a medical device with an active agent in a manner that permits the coated surface to release the active agent over time when implanted in vivo.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:292596 USPATFULL
 TITLE: Coatings for medical articles including natural biodegradable polysaccharides
 INVENTOR(S): Chudzik, Stephen J., St. Paul, MN, UNITED STATES
 Chinn, Joseph A., Shakopee, MN, UNITED STATES
 Swan, Dale G., St. Louis Park, MN, UNITED STATES
 Burkstrand, Michael J., Richfield, MN, UNITED STATES
 PATENT ASSIGNEE(S): SurModics, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005255142	A1	20051117
APPLICATION INFO.:	US 2005-127351	A1	20050512 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-570334P	20040512 (60)
	US 2004-603707P	20040823 (60)
	US 2004-613662P	20040928 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2724	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Biodegradable coatings that include natural biodegradable polysaccharides are described. The coating is formed from a plurality of natural biodegradable polysaccharides having pendent coupling groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 6 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:267654 USPATFULL
 TITLE: Process and systems for biocompatible surfaces
 INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
 Chappa, Ralph A., Prior Lake, MN, UNITED STATES
 Chinn, Joseph A., Shakopee, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005232970	A1	20051020
APPLICATION INFO.:	US 2005-90517	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-556634P	20040326 (60)

US 2004-568021P 20040503 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Kagan Binder PLLC, Maple Island Building, 221 Main St N
Ste 200, Stillwater, MN, 55082, US
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 2063

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity that are able to release a bioactive agent, wherein the coatings are formed using biostable or biodegradable polymeric material and photoreactive groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:183066 USPATFULL
TITLE: Method and apparatus for coating of substrates
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005158449	A1	20050721
APPLICATION INFO.:	US 2004-976348	A1	20041027 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-256349, filed on 27 Sep 2002, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903, US		
NUMBER OF CLAIMS:	30		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Page(s)		
LINE COUNT:	2248		

AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

=> d his

(FILE 'HOME' ENTERED AT 18:45:42 ON 05 OCT 2006)

FILE 'HCAPLUS, USPATFULL, EPFULL, JAPIO, MEDLINE, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 18:47:05 ON 05 OCT 2006

L1 108145 S (RAPAMYCIN? OR (CCI 779) OR (RAD 001) OR (SDZ RAD) OR EVEROLI
L2 12395 S L1 AND LINK?
L3 3038 S L2 AND BACKBONE
L4 2021 S L3 AND (POLYAMINO? OR POLYLYSINE OR PEG OR (POLYETHYLENE GLY

```

L5      1539 S L4 AND (IMPLANT? OR PROSTHE?)
L6      712 S L5 AND BIODEGRAD?
L7      701 S L6 AND COAT?
L8      666 S L7 AND MATRIX
L9      43 S L8 AND MTOR
L10     42 S L9 AND RECEPTOR?
L11     0 S L10 AND ((ESTER LINKAGE) OR (HETEROBIFUNCTIONAL LINKER) OR (A
L12     7 S L10 AND ((ESTER LINK?) OR (HETEROBIFUNCTIONAL LINK?) OR (AMID

```

=> s L4 and ((ester link?) or (heterobifunctional link?) or (amide ester link?) or (disulfide link?))

```

L13     899 L4 AND ((ESTER LINK?) OR (HETEROBIFUNCTIONAL LINK?) OR (AMIDE
      ESTER LINK?) OR (DISULFIDE LINK?))

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=> mTor

MTOR IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s L 13 and mTor

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L14     0 L 13 AND MTOR

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=> s l14 and (implant? or prosthe?)

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L15     0 L14 AND (IMPLANT? OR PROSTHE?)

```

=> s l13 and (implant? or prosthe?)

```

L16     802 L13 AND (IMPLANT? OR PROSTHE?)

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=> s l16 and coat?

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L17     792 L16 AND COAT?

```

=> s l17 and biodegrad?

```

L18     274 L17 AND BIODEGRAD?

```

=> s l18 and matrix

```

L19     261 L18 AND MATRIX

```

=> s l19 and receptor?

```

L20     239 L19 AND RECEPTOR?

```

=> s l20 and derivatives

```

L21     239 L20 AND DERIVATIVES

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=> s l21 and mTor

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L22     7 L21 AND MTOR

```

=> d l22 1-7 ibib abs

L22 ANSWER 1 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:233416 USPATFULL

TITLE: Biodegradable coating compositions comprising blends

INVENTOR(S): DeWitt, David M., Minneapolis, MN, UNITED STATES
Hergenrother, Robert W., Eden Prairie, MN, UNITED STATES
Malinoff, Harrison, Golden Valley, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006198868	A1	20060907
APPLICATION INFO.:	US 2005-317212	A1	20051222 (11)

NUMBER	DATE
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 PRIORITY INFORMATION: US 2005-641533P 20050105 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING,
 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US
 NUMBER OF CLAIMS: 27
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 16 Drawing Page(s)
 LINE COUNT: 3470

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at
 least a portion of the device is provided with a biodegradable
 coating composed of a blend of bioactive agent and at least two
 biodegradable polymers or copolymers. The invention further
 provides methods of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:174045 USPATFULL
 TITLE: Biodegradable coating compositions
 including multiple layers
 INVENTOR(S): DeWitt, David M., Minneapolis, MN, UNITED STATES
 Hergenrother, Robert W., Eden Prairie, MN, UNITED
 STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006147491	A1	20060706
APPLICATION INFO.:	US 2005-316787	A1	20051222 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-641557P	20050105 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US	
NUMBER OF CLAIMS:	46	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Page(s)	
LINE COUNT:	4075	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides devices for treatment of a patient, wherein at
 least a portion of the device is provided with a biodegradable
 coating composed of multiple coated layers of
 biodegradable material. The invention further provides methods
 of treatment utilizing the devices.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:104550 USPATFULL
 TITLE: Method and apparatus for coating of
 substrates
 INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006088653	A1	20060427
APPLICATION INFO.:	US 2004-976193	A1	20041027 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		

LEGAL REPRESENTATIVE: PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER,
80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US
NUMBER OF CLAIMS: 77
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 25 Drawing Page(s)
LINE COUNT: 2385

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 4 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2006:67060 USPATFULL
TITLE: Methods, devices, and coatings for controlled active agent release
INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006057277	A1	20060316
APPLICATION INFO.:	US 2005-223811	A1	20050909 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-608638P	20040910 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PAULY, DEVRIES SMITH & DEFFNER, L.L.C., 900 IDS CENTER, 80 SOUTH EIGHTH STREET, MINNEAPOLIS, MN, 55402-8773, US	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1438	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods, devices, and coatings, wherein active agent release is determined by deposition rate of a coating or material. In an embodiment, the invention includes a method for coating a medical device, including identifying active agent elution rates for a coating composition applied to substrates at a plurality of coating deposition rates, selecting one of the coating deposition rates, and applying the coating composition to the medical device at the selected deposition rate. In an embodiment, the invention includes a combination including a medical device and a composition for coating the surface of a medical device with an active agent in a manner that permits the coated surface to release the active agent over time when implanted in vivo.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:292596 USPATFULL
TITLE: Coatings for medical articles including

INVENTOR(S): natural biodegradable polysaccharides
 Chudzik, Stephen J., St. Paul, MN, UNITED STATES
 Chinn, Joseph A., Shakopee, MN, UNITED STATES
 Swan, Dale G., St. Louis Park, MN, UNITED STATES
 PATENT ASSIGNEE(S): Burkstrand, Michael J., Richfield, MN, UNITED STATES
 SurModics, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005255142	A1	20051117
APPLICATION INFO.:	US 2005-127351	A1	20050512 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-570334P	20040512 (60)
	US 2004-603707P	20040823 (60)
	US 2004-613662P	20040928 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET NORTH, STILLWATER, MN, 55082, US	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2724	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	Biodegradable coatings that include natural biodegradable polysaccharides are described. The coating is formed from a plurality of natural biodegradable polysaccharides having pendent coupling groups.	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 6 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:267654 USPATFULL
 TITLE: Process and systems for biocompatible surfaces
 INVENTOR(S): Stucke, Sean M., Farmington, MN, UNITED STATES
 Chappa, Ralph A., Prior Lake, MN, UNITED STATES
 Chinn, Joseph A., Shakopee, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005232970	A1	20051020
APPLICATION INFO.:	US 2005-90517	A1	20050325 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-556634P	20040326 (60)
	US 2004-568021P	20040503 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Kagan Binder PLLC, Maple Island Building, 221 Main St N Ste 200, Stillwater, MN, 55082, US	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	2063	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	The invention provides methods and compositions for providing biocompatible surfaces to medical articles. In particular the invention provides biocompatible coatings with heparin activity that are able to release a bioactive agent, wherein the coatings are formed using biostable or biodegradable polymeric material and photoreactive groups.	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:183066 USPATFULL

TITLE: Method and apparatus for coating of
substrates

INVENTOR(S): Chappa, Ralph A., Prior Lake, MN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005158449	A1	20050721
APPLICATION INFO.:	US 2004-976348	A1	20041027 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-256349, filed on 27 Sep 2002, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903, US		
NUMBER OF CLAIMS:	30		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Page(s)		
LINE COUNT:	2248		

AB The invention relates to methods and apparatuses that reduce problems encountered during coating of a device, such as a medical device having a cylindrical shape. In an embodiment, the invention includes an apparatus including a bi-directional rotation member. In an embodiment, the invention includes a method with a bi-directional indexing movement. In an embodiment, the invention includes a coating solution supply member having a major axis oriented parallel to a gap between rollers on a coating apparatus. In an embodiment, the invention includes a device retaining member. In an embodiment, the invention includes an air nozzle or an air knife. In an embodiment, the invention includes a method including removing a static charge from a small diameter medical device.

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